

Amendments to the Claims:

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A distributed printing system comprising:
a print client for creating PDL data based on a print request of a user;
a printer controller for delivering raster data, which is created by subjecting the PDL data created by said print client to raster image processing, to a printer engine so as to be printed thereby; and
RIP distribution control means capable of making the raster image processing distributed among and performed by said print client and said printer controller,
wherein said RIP distribution control means distributes the raster image processing based on RIP host data which is data related to the processing performance of said print client.
2. (Canceled).
3. (Currently Amended) The distributed printing system as set forth in claim ~~[[2]]~~ 1, wherein said RIP distribution control means determines the amount of accumulation of said PDL data based on PDL feature data corresponding to an amount of raster image processing of said PDL data.
4. (Canceled).
5. (Currently Amended) The distributed printing system as set forth in claim 1, wherein said processing performance includes at least one of a raster image processing speed, a memory capacity, and a data transmission time, and an amount of accumulation of the PDL data waiting for the raster image processing.
6. (Previously Presented) The distributed printing system as set forth in claim 1, wherein said RIP distribution control means comprises RIP function parts arranged in said printer controller and said print client, respectively; and RIP host selection control means arranged in said printer controller for determining, upon receipt of a notification of

transmission of PDL data from said print client, whether an amount of accumulation of PDL data waiting for raster image processing when the PDL data to be transmitted from said print client is received becomes equal to or greater than a prescribed threshold, and for issuing an instruction such that said print client performs raster image processing of said PDL data by using its own RIP function part when the amount of accumulation of PDL data waiting for raster image processing becomes equal to or greater than said threshold.

7. (Previously Presented) The distributed printing system as set forth in claim 6, wherein a plurality of print client members are arranged as said print client; and said RIP host selection control means comprises: an RIP host data part arranged in said printer controller for storing RIP host data which is data related to the processing performance of each print client member; and an RIP host selection function part for selecting one of said plurality of print client members which has the highest processing performance while referring to the RIP host data when the amount of accumulation of said PDL data waiting for raster image processing becomes equal to or greater than a prescribed threshold, and for instructing the print client member thus selected in such a manner that raster image processing of said PDL data is carried out by said selected print client member while using its own RIP function part.

8. (Previously Presented) The distributed printing system as set forth in claim 6, wherein RIP execution permission means is provided in said RIP function part arranged in each print client member in such a manner that the user can preset whether an instruction of raster image processing from said printer controller is acceptable.

9. (Previously Presented) The distributed printing system as set forth in claim 8, wherein a plurality of print client members are arranged as said print client; and said RIP host selection control means comprises: an RIP host data part arranged in said printer controller for storing RIP host data which is data related to the processing performance of each print client member; and an RIP host selection function part for selecting those of said plurality of print client members which said RIP execution permission means permits acceptance of an raster image processing instruction from said printer controller when the amount of accumulation of said PDL data waiting for raster image processing becomes equal to or greater than a prescribed threshold, further selecting one of the thus selected print client members which has the highest processing performance while referring to the RIP host data,

and instructing the print client member thus selected in such a manner that raster image processing of said PDL data is carried out by said selected print client member while using its own RIP function part.

10. (Previously Presented) The distributed printing system as set forth in claim 1, wherein said RIP distribution control means comprises: RIP function parts arranged in said printer controller and said print client, respectively; a PDL analysis function part arranged in said print client for extracting PDL feature data corresponding to an amount of raster image processing of the PDL data; and RIP host selection control means arranged in said printer controller for determining, upon receipt of a notification of transmission of PDL data from said print client, based on the PDL feature data from said PDL analysis function part whether the amount of accumulation of PDL data waiting for raster image processing when the PDL data to be transmitted from said print client is received becomes equal to or greater than a prescribed threshold, and for issuing an instruction such that said print client performs raster image processing of said PDL data by using its own RIP function part when the amount of accumulation of PDL data waiting for raster image processing becomes equal to or greater than said threshold.

11. (Previously Presented) The distributed printing system as set forth in claim 10, wherein the PDL feature data extracted by said PDL analysis function part comprises the number of pages of the PDL data.

12. (Previously Presented) The distributed printing system as set forth in claim 10, wherein a plurality of print client members are arranged as said print client; and said RIP host selection control means comprises: an RIP host data part arranged in said printer controller for storing RIP host data which is data related to the processing performance of each print client member; and an RIP host selection function part for selecting one of said plurality of print client members which has the highest processing performance while referring to the RIP host data when the amount of accumulation of said PDL data waiting for raster image processing becomes equal to or greater than a prescribed threshold, and for instructing the print client member thus selected in such a manner that raster image processing of said PDL data is carried out by said selected print client member while using its own RIP function part.

13. (Previously Presented) The distributed printing system as set forth in claim 1, wherein said RIP distribution control means comprises: RIP function parts arranged in said printer controller and said print client, respectively; a PDL analysis function part arranged in said printer controller for extracting PDL feature data corresponding to an amount of raster image processing of the PDL data; and RIP host selection control means for determining, upon receipt of a notification of transmission of PDL data from said print client, based on the PDL feature data from said PDL analysis function part whether an amount of accumulation of PDL data waiting for raster image processing when the PDL data to be transmitted from said print client is received becomes equal to or greater than a prescribed threshold, and for issuing an instruction such that said print client performs raster image processing of said PDL data by using its own RIP function part when the amount of accumulation of PDL data waiting for raster image processing becomes equal to or greater than said threshold.

14. (Previously Presented) The distributed printing system as set forth in claim 13, wherein a plurality of print client members are arranged as said print client; and said RIP host selection control means comprises: an RIP host data part arranged in said printer controller for storing RIP host data which is data related to the processing performance of each print client member; and an RIP host selection function part for selecting one of said plurality of print client members which has the highest processing performance while referring to the RIP host data when the amount of accumulation of said PDL data waiting for raster image processing becomes equal to or greater than a prescribed threshold, and for instructing the print client member thus selected in such a manner that raster image processing of said PDL data is carried out by said selected print client member while using its own RIP function part.

15. (Previously Presented) The distributed printing system as set forth in claim 1, wherein said RIP distribution control means comprises: a PDL analysis function part arranged in said print client for extracting PDL feature data corresponding to an amount of raster image processing of the PDL data, and a notification function part having a function of downloading control data from said printer controller; and RIP host selection control means arranged in said printer controller for determining, upon receipt of a notification of transmission of PDL data from an RIP module storing a control program for raster image processing and from said print client, based on the PDL feature data extracted by said PDL analysis function part

whether an amount of accumulation of PDL data waiting for raster image processing when the PDL data to be transmitted is received becomes equal to or greater than a prescribed threshold, and for sending control data of said RIP module to said print client when the amount of accumulation of PDL data waiting for raster image processing becomes equal to or greater than said threshold, and issuing an instruction such that said print client performs raster image processing of said PDL data by using the control data received by said print client.

16. (Previously Presented) The distributed printing system as set forth in claim 15, wherein a plurality of print client members are arranged as said print client; and said printer controller selects one of said plurality of print client members which has the highest processing performance while referring to the RIP host data when the amount of accumulation of said PDL data waiting for raster image processing becomes equal to or greater than a prescribed threshold, and makes said notification function part of the print client member thus selected download a control program for raster image processing sent from said RIP module.

17. (Previously Presented) The distributed printing system as set forth in claim 7, further comprising, in each print client member, a host data collection part for collecting RIP host data of each print client member and transmitting the RIP host data thus collected to the RIP host data part at periodic times.

18. (Previously Presented) A distributed printing method comprising:
a PDL data creation step for creating PDL data in a print client based on a print request of a user;
a distribution step for distributing said PDL data to said print client and a printer controller;
a raster image processing step for acquiring raster data by performing raster image processing of the distributed PDL data in said print client or said printer controller; and
a printing step for delivering the raster data acquired through the raster image processing to a printer engine to print the raster data,
wherein in said distribution step, the raster image processing is distributed based on RIP host data which is data related to the processing performance of said print client.

19. (Previously Presented) The distributed printing method as set forth in claim 18, wherein in said distribution step, the raster image processing is distributed based on an amount of accumulation of the PDL data waiting for raster image processing.

20. (Previously Presented) The distributed printing method as set forth in claim 19, wherein the amount of accumulation of said PDL data is determined based on PDL feature data corresponding to an amount of raster image processing of the PDL data.

21. (Canceled).

22. (Previously Presented) The distributed printing method as set forth in claim 18, wherein said processing performance includes at least one of a raster image processing speed, a memory capacity, and a data transmission time.

23. (Previously Presented) The distributed printing method as set forth in claim 18, wherein said distribution step comprises: a determination step for determining, upon receipt of a notification of transmission of PDL data from said print client, in said print controller whether an amount of accumulation of the PDL data waiting for raster image processing when the PDL data to be transmitted is received becomes equal to or greater than a prescribed threshold; and an RIP host selection step for issuing an instruction such that said print client performs raster image processing of said PDL data by using its own RIP function part when the amount of accumulation of the PDL data becomes equal to or greater than said threshold.

24. (Previously Presented) The distributed printing method as set forth in claim 23, wherein in said RIP host selection step, one of a plurality of print client members which has the highest processing performance is selected, and an instruction is issued to the print client member thus selected in such a manner that raster image processing of said PDL data is carried out by said selected print client member while using its own RIP function part.

25. (Previously Presented) The distributed printing method as set forth in claim 23, wherein an RIP execution permission step is provided in each print client member in such

a manner that the user can preset whether an raster image processing instruction from said printer controller is acceptable.

26. (Previously Presented) The distributed printing method as set forth in claim 25, wherein said RIP host selection step comprises: a step for selecting those of said plurality of print client members which are permitted to accept an raster image processing instruction from said printer controller in the RIP execution permission step; a step for referring to RIP host data for the print client members thus selected; and a step for further selecting one of the selected print client members which has the highest processing performance; wherein an instruction is given to the selected print client member such that the PDL data is subjected to raster image processing by using its own RIP function part.

27. (Previously Presented) The distributed printing method as set forth in claim 18, wherein said distribution step comprises: a step for extracting PDL feature data corresponding to an amount of raster image processing of the PDL data; a determination step for determining, upon receipt of a notification of transmission of PDL data from said print client to said print controller, based on the PDL feature data whether an amount of accumulation of the PDL data waiting for raster image processing when the PDL data to be transmitted is received becomes equal to or greater than a prescribed threshold; and an RIP host selection step for issuing an instruction such that said print client performs raster image processing of the PDL data by using its own RIP function part when the amount of accumulation of the PDL data becomes equal to or greater than said threshold.

28. (Previously Presented) The distributed printing method as set forth in claim 27, wherein said step for extracting PDL feature data is performed on a print client side.

29. (Previously Presented) The distributed printing method as set forth in claim 27, wherein said step for extracting PDL feature data is performed on a printer controller side.

30. (Previously Presented) The distributed printing method as set forth in claim 27, wherein said PDL feature data comprises the number of pages of the PDL data.

31. (Previously Presented) The distributed printing method as set forth in claim 27, wherein in said RIP host selection step, when there are a plurality of print client members, one of the plurality of print client members having the highest processing performance is selected, and an instruction is given to the selected print client member so that said PDL data is subjected to raster image processing by using its own RIP function part.

32. (Previously Presented) The distributed printing method as set forth in claim 23, wherein said RIP host selection step includes a step for transmitting control data of an RIP module from said printer controller to said print client when it is determined that the amount of accumulation of the PDL data becomes equal to or greater than said threshold, and for issuing an instruction such that said print client performs raster image processing of the PDL data by using the control data received.

33. (Previously Presented) The distributed printing method as set forth in claim 32, wherein when said print client comprises a plurality of print client members, one of said print client members which has the highest processing performance is selected by referring to RIP host data.

34. (Previously Presented) The distributed printing method as set forth in claim 23, further comprising a host data collection step for collecting RIP host data of each of print client members and transmitting the RIP host data thus collected to said printer controller at periodic times.

35. (Previously Presented) The distributed printing system as set forth in claim 1, wherein each print client member comprises a notification function part for notifying the printer controller to download an RIP module stored in the printer controller to the print client member, wherein the notification function part notifies the printer controller when the print client member is selected by the RIP distribution control means for performing raster image processing of the PDL data created by the print client.

36. (Previously Presented) The distributed printing method as set forth in claim 18, further comprising:

notifying the printer controller to download an RIP module stored in the printer controller to the print client member, wherein the notifying step is performed when the print client member is selected by the distribution step for performing raster image processing of the PDL data created by the print client.

37. (New) The distributed printing system as set forth in claim 1, wherein said print client comprises a plurality of print clients,

wherein said RIP distribution control means distributes the raster image processing based on the RIP host data which is data related to the processing performance of each of said print clients, and

wherein said RIP distribution control means is only instructed to distribute the raster image processing to one of said print clients when said printer controller is congested and cannot perform the raster image processing.